Fatal and non-fatal accidents in other cleaning and livestock process service in Japan in 1999-2021

other cleaning and livestock process service industry Code No.150109

Type of accidents in other cleaning and livestock process service in 1999-2021

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Type of accidents
fall from height	191	175	202	170	171	173	166	160	159	167	140	130	143	145	145	113	146	148	131	158	136	152	132	3,553	fall from height
falling to same level	220	227	223	195	192	199	178	198	172	178	150	165	149	164	179	182	160	181	178	185	158	192	190	4,215	falling to same level
crash	77	88	87	71	63	56	52	62	44	50	55	41	51	55	39	42	48	48	50	45	44	57	46	1,271	crash
struck by flying or falling object	59	53	67	46	55	51	42	43	42	39	36	38	46	29	40	30	37	37	22	24	31	29	27	923	struck by flying or falling object
collapse	7	12	14	12	7	12	10	11	7	4	11	6	7	6	5	5	7	3	4	11	7	5	5	178	collapse
crashed by	39	45	34	31	32	44	40	34	22	29	31	24	21	28	31	30	30	25	19	23	13	28	17	670	crashed by
caught in/between	117	124	104	109	131	102	107	109	88	120	86	67	88	87	78	94	82	59	76	67	85	70	75	2,125	caught in/between
cut	67	69	82	68	56	45	47	55	50	40	43	53	39	49	47	38	39	34	39	35	40	36	28	1,099	cut
injury to the sole of the foot	2	3	1	5	7	3	5	7	4	7	3	3	2	4	4	7	1	2	2	5		4	2	83	injury to the sole of the foot
drown		1											3			1			1					6	drown
contact to high/low-temperature	13	9	12	13	5	8	8	3	7	4	8	17	9	8	8	6	7	8	7	21	15	17	13	226	contact to high/low-temperature

contact to harmful substance	14	9	8	18	7	6	8	7	9	5	4	4	4	10	6	5	7	11	3	4	3	5	2	159	contact to harmful substance
electric shock	1		2	1		2			1	1							2				1			11	electric shock
explosion			2	2	1		2	2		1				1	3		1	3		1	1			20	explosion
burst						1			2		1		2		1	1	2				1	1	1	13	burst
fire	1							1		2		1		1										6	fire
traffic accident (public road)	52	49	49	51	52	46	52	37	36	37	32	20	32	38	36	34	43	42	24	26	30	27	25	870	traffic accident (public road)
traffic accident (others)	1	1			4	1		2	4			2	1							1		2	1	20	traffic accident (others)
reaction to motion/improper motion	217	206	208	155	151	132	130	112	118	115	108	122	125	101	99	108	103	117	95	99	106	119	114	2,960	reaction to motion/improper motion
others	8	10	10	10	12	5	4	13	6	8	5	5	8	5	7	12	8	3	4	8	11	19	12	193	others
unclassifiable	5	5	1	2	4		1	2	3	3	1			2	3	2	3		1	2	4		1	45	unclassifiable
total	1,091	1,086	1,106	959	950	886	852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	18,646	total

Causal agents (large) of fatal and non-fatal accidents in other cleaning and livestock process service in 1999-2021

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
machine	40	50	59	52	55	50	52	60	44	51	41	42	45	38	48	43	42	34	32	31	38	34	31	1,012	machine
crane, conveying																									crane,

machine	245	244	234	206	228	188	222	212	193	203	175	132	168	183	167	163	152	165	137	134	149	143	130	4,173	conveying machine
other equipment	150	131	150	120	133	118	108	126	102	125	119	92	108	109	111	98	114	104	101	126	112	110	92	2,659	other equipment
temporary buildings, establishments	313	297	311	287	260	278	250	238	231	240	210	225	200	219	236	213	233	254	252	241	212	270	243	5,713	temporary buildings, establishments
substance, material	89	77	84	83	67	71	64	68	63	64	46	63	43	43	44	56	51	48	40	40	50	44	42	1,340	substance, material
load	130	151	137	92	93	70	63	56	70	47	45	46	61	47	45	40	51	38	26	34	45	48	50	1,485	load
environment	35	33	42	33	35	33	37	35	26	31	31	36	30	35	30	29	25	29	28	52	29	42	24	760	environment
others	89	103	89	86	79	78	56	63	45	49	47	62	75	59	50	68	58	49	40	57	51	72	79	1,504	others
total	1,091	1,086	1,106	959	950	886	852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	18,646	total

Causal agents (middle) of fatal and non-fatal accidents in other cleaning and livestock process service in 1999-2021

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents
engine	1				1							1	1						1					5	engine
power transmission mechanism	2	2	5	3	7	2	2	7	2	2	2		2	2	3	2		2	1		2	3	3	56	power transmission mechanism
woodworking machine	5	8	5	7	7	5	8	10	4	6	8	13	2	5	8	8	8	5	2	3	7	5	3	142	woodworking machine
																									construction

construction machine	5	5	6	7	8	11	7	9	6	13	10		5	9	8	7	6	7	7	4	5	7	5	157	machine
metal manufacturing machine	3	8	4	2	3	5	1	4	7	4	1	5	9	2	5	1	1	3	1	5	3	2	2	81	metal manufacturing machine
general machine	24	27	39	33	29	27	34	30	25	26	20	23	26	20	24	25	27	16	20	18	21	17	18	569	general machine
mobile silviculture machine																		1		1				2	mobile silviculture machine
crane	8	8	9	9	4	1	5	10	6	9	5	3	3	5	2	2	4	1	3	7	9	8	3	124	crane
conveying machine	173	186	184	150	175	124	157	152	141	149	131	106	124	132	125	126	96	124	95	99	107	99	96	3,051	conveying machine
vehicle	64	50	41	47	49	63	60	50	46	45	39	23	41	46	40	35	52	40	39	28	33	36	31	998	vehicle
pressure vessel	3	1		1		2			3	1	1		1	1	1		1			1	1			18	pressure vessel
chemical facilities	1					2		1													1	2	1	8	chemical facilities
welding equipment							1									1						1	1	4	welding equipment
kiln, caldron		3	4		1	1	1	1	1		3		1	2	2		1	1				1		23	kiln, caldron
electric equipment	2		3	4		4		1	2				1		1		1	2		3	1	1		26	electric equipment
human power machine, tools	25	24	31	21	26	25	24	24	23	21	17	12	14	21	18	20	19	15	16	30	13	23	12	474	human power machine, tools
tools	82	75	84	64	76	66	59	74	54	79	62	56	69	62	67	56	63	61	63	64	58	59	54	1,507	tools

other equipments, facilities	37	28	28	30	30	18	23	25	19	24	36	24	22	23	22	21	29	25	22	28	38	23	24	599	other equipments, facilities
temporary buildings, establishments	313	297	311	287	260	278	250	238	231	240	210	225	200	219	236	213	233	254	252	241	212	270	243	5,713	temporary buildings, establishments
hazards, harmful substances	17	7	9	20	9	6	11	10	10	7	4	8	6	10	6	5	8	14	5	7	5	4	6	194	hazards, harmful substances
materials	72	70	75	63	58	65	53	58	53	57	42	55	37	33	38	51	43	34	35	33	45	40	36	1,146	materials
load	130	151	137	92	93	70	63	56	70	47	45	46	61	47	45	40	51	38	26	34	45	48	50	1,485	load
natural environment	35	33	42	33	35	33	37	35	26	31	31	36	30	35	30	29	25	29	28	52	29	42	24	760	natural environment
other causal agent	28	52	40	35	31	21	14	26	10	12	8	15	32	13	14	23	20	7	12	12	11	27	13	476	other causal agent
no causal agent	53	46	48	50	46	56	41	35	31	33	37	45	42	43	32	41	37	41	26	42	38	45	66	974	no causal agent
unclassifiable	8	5	1	1	2	1	1	2	4	4	2	2	1	3	4	4	1	1	2	3	2			54	unclassifiable
total	1,091	1,086	1,106	959	950	886	852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	18,646	total

Causal agents (small) of fatal and non-fatal accidents in other cleaning and livestock process service in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
engine					1							1	1						1					4	engine
power transmission																									power transmission

mechanism			5		7		2	7	2	2	2		2	2	3	2		2	1		2	3	3	47	mechanism
circular sawing machine			3		5		1	4	4	1	4	3		2	3	2	1	3	1	1	2	3		43	circular sawing machine
band sawing machine																							1	1	band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																		1						1	chamfering machine, router, woodworking milling machine
chain saw			2				4	4		3	3	9	2	3	4	4	5	1	1	1	4	1	2	53	chain saw
other woodworking machines					2		3	2		2	1	1			1	2	2			1	1	1		19	other woodworking machines
leveling, transporting or loading machine			1		3		1	4	2	1	1		1	2	2	1		1			1	1	1	23	leveling, transporting or loading machine
excavating machine					3		3	4	1	9	5		1	3	5	5	2	3	5	2	3	4	2	60	excavating machine
foundation work machine								1																1	foundation work machine
hardening machine																									hardening machine

demolition machine							1			1	1						3	3	1	1	1	2	1	15	demolition machine
vehicle for high lift work			1										2			1	1							5	vehicle for high lift work
other construction machines			4		2		2		3	2	3		1	4	1				1	1			1	25	other construction machines
lathe										1														1	lathe
drill press, milling machine					1																			1	drill press, milling machine
grinding machine, buffing machine			2				1	1	5	1		3	2	1	2		1	1	1	1	1			23	grinding machine, buffing machine
power press													2							1	1			4	power press
forging pressure hammer								1														1		2	forging pressure hammer
shearing machine									2				1					1						4	shearing machine
other metal manufacturing machines			2		2			2		2	1	2	4	1	3	1		1		3	1	1	2	28	other metal manufacturing machines
centrifugal machine										1														1	centrifugal machine
mixer, grinder					2			4	3	2	1	2	4	2		4	2			1	2		3	32	mixer, grinder
roll machine (except printingroll machine)								1		1					1		1		1	3	1			9	roll machine (except printingroll machine)
injection molding machine																									injection molding machine

food manufacturing machine			1		1		1		2	1	2	3	1	1	1	1	2	1	1	1	2	1	1	24	food manufacturing machine
printing machine																		1						1	printing machine
industrial robot											1													1	industrial robot
other general power machines			38		26		33	25	20	21	16	18	21	17	22	20	22	14	18	13	16	16	14	390	other general power machines
felling machine																		1		1				2	felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			3		1		1	2		2	3	2	2	1	2	1				2	3	4		29	crane
mobile crane			3		2		3	6	5	4	2	1	1	3			2	1	3	2	5	3	2	48	mobile crane
derrick crane																									derrick crane
elevator, lift					1			1	1	1						1	2			1	1	1	1	11	elevator, lift
cargo lifting appliance								1																1	cargo lifting appliance
gondola			1				1			2														4	gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline																									simple skyline

yarding equipment																									yarding equipment
other powered crane			2											1						2				5	other powered crane
truck			148		125		105	111	108	118	100	83	90	92	96	95	71	102	73	74	87	84	75	1,837	truck
forklift			3		11		14	15	7	4	4	2	6	11	2	9	2	4	5	11	6	3	3	122	forklift
railway equipment					1									1										2	railway equipment
conveyor			13		15		14	12	8	7	14	9	5	10	7	8	8	5	4	7	2	6	4	158	conveyor
loader			1		2					2		1			1						1	1		9	loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines			19		21		24	14	18	18	13	11	23	18	19	14	15	13	13	7	11	5	14	290	other powered conveying machines
cars, bus, motorcycle			33		37		48	40	35	32	27	16	35	36	25	25	42	33	26	20	21	28	22	581	cars, bus, motorcycle
railway vehicle			6		7		7	5	7	12	8	2	4	6	8	8	6	5	11	6	8	5	7	128	railway vehicle
other vehicles			2		5		5	5	4	1	4	5	2	4	7	2	4	2	2	2	4	3	2	65	other vehicles
boiler										1	1		1	1	1		1			1				7	boiler
pressure vessel																									pressure vessel
other pressure vessels									3												1			4	other pressure vessels
chemical facilities								1													1	2	1	5	chemical facilities
gas welding equipment							1																1	2	gas welding equipment
arc welding																									arc welding

equipment																1						1		2	equipment
other welding equipment																									other welding equipment
kiln, caldron			3		1		1	1	1		3		1	2	2		1	1				1		18	kiln, caldron
industrial dryer			1																					1	industrial dryer
other kiln, caldron																									other kiln, caldron
transmission			1														1							2	transmission
electric power facilities			1						1											1				3	electric power facilities
other electrical equipment			1					1	1				1		1			2		2	1	1		11	other electrical equipment
human power cranes										1													1	2	human power cranes
human power hauling equipment			10		8		9	7	7	2	4	3	7	10	9	12	12	6	12	15	6	10	2	151	human power hauling equipment
human power machine			1										1		1							1		4	human power machine
hand tool			20		18		15	17	16	18	13	9	6	11	8	8	7	9	4	15	7	12	9	222	hand tool
ladder			45		53		42	45	35	46	38	36	42	42	44	32	48	43	34	44	35	38	37	779	ladder
slinging tool			2		1		2	1	2	1	1	1	1	1		2					1		1	17	slinging tool
other tools			37		22		15	28	17	32	23	19	26	19	23	22	15	18	29	20	22	21	16	424	other tools
other equipment, facilities			28		30		23	25	19	24	36	24	22	23	22	21	29	25	22	28	38	23	24	486	other equipment, facilities
scaffolding			4		4		10	2	3	3	2	1	3	2	4		7	1		3	1	2		52	scaffolding

timbering									1															1	timbering
stairs, landing stage			37		40		29	35	32	33	28	30	42	37	38	28	34	35	34	42	28	41	36	659	stairs, landing stage
opening			11		3		3	7	3	3	4	8	4	4	6	2	4	6	3	7	3	8	5	94	opening
roof, beam, haze, crossbeam, principal rafter			7		8		7	1	4	3	3	1	2	3	6	3		2	5	4	5	1	1	66	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			31		40		33	35	33	42	23	32	21	21	20	32	22	30	22	24	25	31	19	536	working platform, boot board
passage			101		69		88	84	79	77	64	65	71	91	84	76	83	108	97	94	77	112	130	1,650	passage
building, establishment			65		48		48	44	45	55	53	57	39	46	51	46	45	35	58	40	42	39	27	883	building, establishment
other temporary buildings, establishments			55		48		32	30	31	24	33	31	18	15	27	26	38	37	33	27	31	36	25	597	other temporary buildings, establishments
explosive substance							1	1													1			3	explosive substance
inflammable substance									2	2				1			2						2	9	inflammable substance
inflammable gas							1	1		1				1	2			3		1				10	inflammable gas
harmful substance			5		2		3	4	5	3	3	3	2	5	2	1	2	5	1	1	2	2	1	52	harmful substance
radiation																									radiation
other hazards, harmful substances			4		7		6	4	3	1	1	5	4	3	2	4	4	6	4	5	2	2	3	70	other hazards, harmful substances
metal material			25		22		23	22	20	20	13	17	18	10	12	15	15	12	5	14	18	17	11	309	metal material
lumber, bamboo			10		8		4	10	5	7	6	12	5	7	8	6	4	7	7	6	5	4	8	129	lumber, bamboo

stone, sand, substance			9		3		3	3	5	1	3	2	4	2	1	7	4	4	1	1	3	3	2	61	stone, sand, substance
other materials			31		25		23	23	23	29	20	24	10	14	17	23	20	11	22	12	19	16	15	377	other materials
load			133		89		57	51	63	41	43	40	56	44	41	37	48	36	24	33	38	43	48	965	load
machine/equipment as load			4		4		6	5	7	6	2	6	5	3	4	3	3	2	2	1	7	5	2	77	machine/equipment as load
natural ground, rock			12		7		8	7	6	12	8	7	3	5	3	3	9	4	4	5	8	8	4	123	natural ground, rock
standing tree			5		6		7	8	4	8	16	6	6	6	6	1	3	2	6	6	3	8	3	110	standing tree
water			1		2		1	3	2	2			4	1	2	1		2	1	2	1	1	1	27	water
abnormal environment			1							1		1		2	1						1	1		8	abnormal environment
high/cold temperature environment			6		5		3	1	2	2	3	10	4	6	5	1	4	6	5	18	12	13	7	113	high/cold temperature environment
other environments			17		15		18	16	12	6	4	12	13	15	13	23	9	15	12	21	4	11	9	245	other environments
other causal agent			40		31		14	26	10	12	8	15	32	13	14	23	20	7	12	12	11	27	13	340	other causal agent
no causal agent			48		46		41	35	31	33	37	45	42	43	32	41	37	41	26	42	38	45	66	769	no causal agent
unclassifiable			1		2		1	2	4	4	2	2	1	3	4	4	1	1	2	3	2			39	unclassifiable
total			1,106		950		852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	14,624	total

Workers age of fatal and non-fatal accidents in other cleaning and livestock process service in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age

19 years old or less	20	15	17	9	12	12	15	9	7	9	3	8	4	12	6	6	9	3	9	13	8	13	6	225	19 years old or less
20-29	193	211	212	187	147	132	134	89	103	98	66	84	92	78	83	60	64	66	61	69	63	58	61	2,411	20-29
30-39	188	226	276	218	221	201	173	182	174	157	151	129	131	145	144	124	108	116	94	95	87	83	96	3,519	30-39
40-49	186	176	162	147	150	134	151	163	126	152	127	125	138	146	157	160	165	160	140	147	129	158	142	3,441	40-49
50-59	310	262	265	234	243	217	211	227	202	181	195	156	180	161	150	166	150	183	142	152	162	179	158	4,486	50-59
60 years old or more	194	196	174	164	177	190	168	188	162	213	172	196	185	191	191	194	230	193	210	239	237	272	228	4,564	60 years old or more
total	1,091	1,086	1,106	959	950	886	852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	18,646	total

Workers' number of workplace of fatal and non-fatal accidents in other cleaning and livestock process service in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	220	195	209	194	223	188	169	198	157	173	150	167	149	163	160	170	170	163	137	142	136	165	134	3,932	9 workers or less
10-29	289	264	245	265	271	260	240	245	244	242	212	204	217	225	217	216	224	221	198	225	224	230	207	5,385	10-29
30-49	149	133	158	146	141	125	148	120	107	127	105	103	114	118	117	104	100	111	95	114	117	129	118	2,799	30-49
50-99	204	215	201	120	153	133	147	131	119	124	121	89	116	119	110	109	110	117	115	116	109	121	127	3,026	50-99
100-299	202	238	192	160	132	144	117	138	122	118	96	108	112	95	106	98	106	92	86	96	82	96	87	2,823	100-299
300 workers or more	27	41	101	74	30	36	31	26	25	26	30	27	22	13	21	13	16	17	25	22	18	22	18	681	300 workers or more
total	1,091	1,086	1,106	959	950	886	852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	18,646	total

Month of fatal and non-fatal accidents in other cleaning and livestock process service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	87	69	83	56	85	82	58	88	70	88	62	53	62	64	73	53	48	59	53	70	70	61	56	1,550	January
February	87	75	68	76	69	72	59	59	65	69	60	59	54	61	47	59	55	49	50	55	52	57	49	1,406	February
March	78	94	88	80	102	77	55	77	64	63	65	65	74	57	77	55	73	57	59	60	47	68	60	1,595	March
April	91	91	86	66	83	76	66	58	73	75	59	57	55	50	59	80	62	56	49	72	53	70	65	1,552	April
May	88	101	112	85	75	66	90	70	75	61	52	38	61	65	56	52	53	70	64	63	49	55	46	1,547	May
June	112	103	92	73	89	72	70	56	73	71	69	68	70	73	56	63	73	60	56	47	55	60	53	1,614	June
July	105	124	107	96	96	80	76	77	61	62	56	81	56	58	71	66	72	65	53	78	68	70	76	1,754	July
August	113	93	100	95	94	69	78	110	62	67	55	61	62	67	66	56	60	78	59	62	69	71	69	1,716	August
September	82	97	95	84	74	70	81	67	56	76	59	57	51	56	60	57	63	48	51	56	57	77	50	1,524	September
October	100	85	104	103	61	78	76	64	70	68	64	54	47	70	54	53	67	44	46	56	63	57	59	1,543	October
November	83	68	83	69	64	92	62	73	59	58	52	53	57	63	58	64	46	57	67	46	56	57	53	1,440	November
December	65	86	88	76	58	52	81	59	46	52	61	52	81	49	54	52	54	78	49	50	47	60	55	1,405	December
total	1,091	1,086	1,106	959	950	886	852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	18,646	total

Prefecture of fatal and non-fatal accidents in other cleaning and livestock process service in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	31	34	27		42		28	22	41	23	19	26	24	31	26	33	29	25	23	31	33	49	38	635	Hokkaido
Aomori	6	6	2				9	8	4	10	2	7	5	4	5	5	10	6	9	8	1	4	6	117	Aomori
Iwate	4	1	10		12		8	4	12	7	7	8	10	8	8	3	7	5	8	7	7	9	13	158	Iwate
Miyagi	9	13	10		8		4	14	14	13	8	11	13	24	23	6	2	9	6	6	6	9	14	222	Miyagi
Akita	7	5	5		8		6	10	5	9	2	4	2	4	6	6	3	4	2	1	2	2	1	94	Akita

Yamagata	10	5	7		6		6	9	3	2	5	2	5	7	5	2	7	13	5	4		5	4	112	Yamagata
Fukushima	10	12	11		8		9	21	8	11	8	11	11	7	8	9	12	12	13	11	9	15	15	231	Fukushima
Ibaraki	16	18	14		14		21	19	13	22	20	16	16	18	12	22	15	14	16	24	29	21	20	380	Ibaraki
Tochigi	7	8	9		10		9	10	11	10	7	10	8	11	13	13	9	17	14	11	7	15	12	221	Tochigi
Gunma	18	20	16		22		20	11	12	22	16	20	13	16	16	21	23	20	16	17	15	16	18	368	Gunma
Saitama	43	57	38		41		39	45	45	54	57	39	37	41	53	37	31	33	31	47	23	46	43	880	Saitama
Chiba	42	29	28		42		49	48	38	35	33	55	52	38	30	45	42	30	26	29	46	35	48	820	Chiba
Tokyo	74	73	74		78		78	77	87	76	58	64	67	57	86	82	75	60	88	81	67	68	60	1,530	Tokyo
Kanagawa	37	43	59		43		44	47	38	39	33	35	31	28	32	55	45	37	26	33	35	48	27	815	Kanagawa
Niigata	18	7	20		24		25	19	15	16	12	12	8	14	21	16	12	16	17	21	17	15	11	336	Niigata
Toyama	8	8	2		8		10	4	3	2	3	1	3	1	6	2	2	3		5	5	5	3	84	Toyama
Ishikawa	6	1	1		3		4	8	4	2	1	5	2	1	3	1	4	3	2	5	6	2	5	69	Ishikawa
Fukui	9	6	2		5		7	4	6	3	3	2	5	3	4	5	3	6	1		2			76	Fukui
Yamanashi	2	2	4		2		2	3	5	2	2	2	8	6	2	1		4		1	2	7		57	Yamanashi
Nagano	7	9	7		7		3	4	7	8	7	9	8	6	7	13	12	8	12	12	10	4	5	165	Nagano
Gifu	20	12	6		16		8	11	6	10	3	9	9	7	9	3	9	7	6	8	7	15	11	192	Gifu
Shizuoka	29	35	26		37		27	19	26	27	16	18	18	28	27	17	13	20	16	24	28	25	19	495	Shizuoka
Aichi	94	96	84		71		65	59	63	91	85	78	81	78	67	53	65	67	62	64	63	66	61	1,513	Aichi
Mie	17	5	17		18		13	14	15	15	23	7	15	8	11	5	14	20	14	14	11	11	18	285	Mie
Shiga	8	6	7		5		5	15	3	6	9	4	4	2	10	3	11	2	1	3	2	2	3	111	Shiga
Kyoto	39	26	64		30		25	37	21	18	16	13	19	22	5	13	21	23	27	22	18	15	10	484	Kyoto
Osaka	212	274	254		102		75	47	50	38	51	26	48	36	42	36	40	33	40	50	43	52	53	1,602	Osaka
Hyogo	46	52	58		49		39	48	46	37	34	28	35	35	31	38	35	39	26	34	39	36	31	816	Hyogo

Nara	11	3	1		4		2	5	4	4	2	3	3	2	6	7	2	2	4	2	3	2	4	76	Nara
Wakayama	8	4	5		8		8	11	6	6	6	10	7	7	5	11	4	7	5	3	7	11	3	142	Wakayama
Tottori	6	6	5		3		4	3	2	2		2	1	1			3	2	2	3				45	Tottori
Shimane	4	2	4		7		1	3	3	2	1	4	6	5	2	1	4	4	2	1	4	2	1	63	Shimane
Okayama	16	5	10		12		13	19	6	15	5	20	15	17	5	9	11	16	7	9	8	15	10	243	Okayama
Hiroshima	27	37	28		20		30	30	19	27	19	11	13	24	21	22	18	18	11	12	18	20	16	441	Hiroshima
Yamaguchi	12	11	6		8		6	17	9	8	9	6	11	6	7	4	13	5	9	11	8	10	10	186	Yamaguchi
Tokushima	26	18	16		29		18	16	19	22	12	13	15	16	18	13	20	11	9		1	7	1	300	Tokushima
Kagawa	11	8	10		7		8	6	15	8	9	8	4	5	5	3	5	8	5	1	6	4	8	144	Kagawa
Ehime	5	10	12		11		6	4	7	7	10	8	3	7	8	9	8	7	7	11	14	5	12	171	Ehime
Kochi	22	14	10		7		4		1	3	2	2	5	5	4	4	2	3	7	2	5	4	4	110	Kochi
Fukuoka	51	42	64		57		47	37	36	55	38	39	42	43	43	38	43	41	36	31	24	26	23	856	Fukuoka
Saga	6	9	5		6		5	3	3	4	4	4	2	6	2	3	5	9	6	6	8	3	3	102	Saga
Nagasaki	10	9	8		7		12	12	15	7	9	9	6	16	9	7	6	10	6	4	8	12	7	189	Nagasaki
Kumamoto	12	15	12		21		10	19	9	17	18	15	15	11	14	14	8	22	16	24	12	20	12	316	Kumamoto
Oita	6	10	7		8		5	8	5		3	4	5	3	1	4	3	2	4	2	5	5	4	94	Oita
Miyazaki	15	10	24		15		18	11	4	10	15	6	7	6	4	6	9	5	4	7	12	3	11	202	Miyazaki
Kagoshima	11	6	9		9		17	14	9	2	11	7	10	9	8	6	9	7	8	9	7	9	12	189	Kagoshima
Okinawa	3	4	8					3	1	3	1	5	3	3	1	4	2	6	1	4	3	8	1	64	Okinawa
total	1,091	1,086	1,106		950		852	858	774	810	714	698	730	733	731	710	726	721	656	715	686	763	691	16,801	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

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Fatal accidents in other cleaning and livestock process service in Japan in 1999-2021

other cleaning and livestock process service industry Code No.150109

Type of fatal accidents in other cleaning and livestock process service in 1999-2021

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Type of accidents
fall from height	4	1	2	7	2	2	3	1	2	3	1	2	2		2			2	2		2	1		41	fall from height
falling to same level	1								1								1							3	falling to same level
crash																									crash
struck by flying or falling object								1																1	struck by flying or falling object
collapse															2			1						3	collapse
crashed by	1	1			2		1		2	1		1			1		1							11	crashed by
caught in/between	1		1	1	1	3	3		1	1	3		2	1	1	2	1				1	1		24	caught in/between
cut			1									1		1										3	cut
injury to the sole of the foot																									injury to the sole of the foot

drown		1								1			1			1			1					5	drown
contact to high/low-temperature	1			1														1						3	contact to high/low-temperature
contact to harmful substance	1			7		1						1		1							1			12	contact to harmful substance
electric shock			2																					2	electric shock
explosion																									explosion
burst																									burst
fire	1													1										2	fire
traffic accident (public road)	3		7	4	2	1	2	1		3		2	1	1	1		1	1	1		2	1		34	traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others																									others
unclassifiable																									unclassifiable
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Causal agents (large) of fatal accidents in other cleaning and livestock process service in 1999-2021

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
machine	1		2	1		1				1	1	1		1			1				1			11	machine
crane, conveying machine	5	1	7	6	6	4	7	1	3	6	2	3	3	2	4	1	3	1	1		2	2		70	crane, conveying machine
other equipment	1	1	2	1		1				1		1	1		2	1		2				1		15	other equipment
temporary buildings, establishments	3	1	2	4	1		2		3	1	1	1	1			1		2	1		2			26	temporary buildings, establishments
substance, material	3			5		1								1	1									11	substance, material
load																									load
environment				1				1				1	1	1					2		1			8	environment
others				2				1																3	others
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Causal agents (middle) of fatal accidents in other cleaning and livestock process service in 1999-2021

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents
engine																									engine
power transmission																									power transmission

mechanism																									mechanism
woodworking machine												1												1	woodworking machine
construction machine			1	1													1				1			4	construction machine
metal manufacturing machine																									metal manufacturing machine
general machine	1		1			1				1	1			1										6	general machine
mobile silviculture machine																									mobile silviculture machine
crane	1																							1	crane
conveying machine	2		3	5	3	3	5	1	2	5	2	2	2	2	3	1	2		1		2	2		48	conveying machine
vehicle	2	1	4	1	3	1	2		1	1		1	1		1		1	1						21	vehicle
pressure vessel													1											1	pressure vessel
chemical facilities																						1		1	chemical facilities
welding equipment																									welding equipment
kiln, caldron															1									1	kiln, caldron
electric equipment			1																					1	electric

																									equipment
human power machine, tools																									human power machine, tools
tools	1	1	1	1		1				1		1			1									8	tools
other equipments, facilities																1		2						3	other equipments, facilities
temporary buildings, establishments	3	1	2	4	1		2		3	1	1	1	1			1		2	1		2			26	temporary buildings, establishments
hazards, harmful substances	3			5		1								1										10	hazards, harmful substances
materials															1									1	materials
load																									load
natural environment				1				1				1	1	1					2		1			8	natural environment
other causal agent				2																				2	other causal agent
no causal agent																									no causal agent
unclassifiable								1																1	unclassifiable
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Causal agents (small) of fatal accidents in other cleaning and livestock process service in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
engine																									engine
power transmission mechanism																									power transmission mechanism
circular sawing machine																									circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw												1												1	chain saw
other woodworking machines																									other woodworking machines
leveling, transporting or loading machine																					1			1	leveling, transporting or loading machine

excavating machine																									excavating machine
foundation work machine																									foundation work machine
hardening machine																									hardening machine
demolition machine																	1							1	demolition machine
vehicle for high lift work			1	1																				2	vehicle for high lift work
other construction machines																									other construction machines
lathe																									lathe
drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine																									grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines																									other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder																									mixer, grinder
roll machine (except																									roll machine (except

printingroll machine)																									printingroll machine)
injection molding machine																									injection molding machine
food manufacturing machine	1																							1	food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines			1			1				1	1			1										5	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane																									crane
mobile crane	1																							1	mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola

lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane																									other powered crane
truck	2		2	4	3	2	3	1	2	3	1	2	2	1	3	1			1		2	2		37	truck
forklift										2														2	forklift
railway equipment																									railway equipment
conveyor						1								1										2	conveyor
loader																									loader
straddle carrier																									straddle carrier
rough terrain hauler				1																				1	rough terrain hauler
other powered conveying machines			1				2				1						2							6	other powered conveying machines
cars, bus, motorcycle	2		4	1	1	1	1		1			1	1		1			1						15	cars, bus, motorcycle
railway vehicle		1			1		1																	3	railway vehicle
other vehicles					1					1							1							3	other vehicles
boiler													1											1	boiler
pressure vessel																									pressure vessel
other pressure vessels																									other pressure vessels

chemical facilities																						1		1	chemical facilities
gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron															1									1	kiln, caldron
industrial dryer																									industrial dryer
other kiln, caldron																									other kiln, caldron
transmission			1																					1	transmission
electric power facilities																									electric power facilities
other electrical equipment																									other electrical equipment
human power cranes																									human power cranes
human power hauling equipment																									human power hauling equipment
human power machine																									human power machine
hand tool																									hand tool
ladder		1		1		1				1					1									5	ladder
slinging tool																									slinging tool

other tools	1		1									1												3	other tools
other equipment, facilities																1		2						3	other equipment, facilities
scaffolding																									scaffolding
timbering																									timbering
stairs, landing stage				1																				1	stairs, landing stage
opening				2					1				1											4	opening
roof, beam, haze, crossbeam, principal rafter																			1		1			2	roof, beam, haze, crossbeam, principal rafter
working platform, boot board		1					1											1						3	working platform, boot board
passage									1															1	passage
building, establishment	2		2	1	1		1		1	1	1	1						1			1			13	building, establishment
other temporary buildings, establishments	1															1								2	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance	1													1										2	inflammable substance
inflammable gas																									inflammable gas
harmful substance	1			5		1																		7	harmful substance
radiation																									radiation

other hazards, harmful substances	1																							1	other hazards, harmful substances
metal material																									metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials															1									1	other materials
load																									load
machine/equipment as load																									machine/equipment as load
natural ground, rock								1																1	natural ground, rock
standing tree																				1				1	standing tree
water													1							1				2	water
abnormal environment												1		1								1		3	abnormal environment
high/cold temperature environment				1																				1	high/cold temperature environment
other environments																									other environments
other causal agent				2																				2	other causal agent
no causal agent																									no causal agent
unclassifiable								1																1	unclassifiable
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Workers age of fatal accidents in other cleaning and livestock process service in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	1																		1					2	19 years old or less
20-29	1		3	1	1	2	1	1				1				1					2			14	20-29
30-39	3		3	3	1	2	1			3		2	1	1	3		2	1	1		1	1		29	30-39
40-49	1	1	4	3		1	1			1	1			1	2			2	1		1			20	40-49
50-59	2	1	1	8	4	1		1	2	1	2	3	2	3		1	1	1				1		35	50-59
60 years old or more	5	1	2	5	1	1	6	1	4	4	1	1	3		2	1	1	1	1		2	1		44	60 years old or more
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Workers' number of workplace of fatal accidents in other cleaning and livestock process service in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	3	2	6	8	1	1	4	1	1		1	4	2	2	2	1	2	2	2		1	2		48	9 workers or less
10-29	7		4	8	2	3	3	1	3	5	2	2	1	2	2	2	1	1	1		5			55	10-29
30-49	1	1	2		1	1	1		1	2			2	1	2		1	1				1		18	30-49
50-99	2		1	3	1	1	1		1	1	1	1	1		1			1						16	50-99
100-299				1	2	1		1		1									1					7	100-299
300 workers or more																									300 workers or more
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Month of fatal accidents in other cleaning and livestock process service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	1		2				1				2			1	2				1					10	January
February	1				2	2				1					1	1					2			10	February
March		1	1	5	1	2	1	1		1		2	1	2	1		1	1	1					22	March
April	1			1		1			1	1					1		2					1		9	April
May	2		1	1	1			2	1	3		1	1											13	May
June	1	1	2	1	1	2			1	1		2			1						2			15	June
July	1		2	3	1		1				1	1			1			1						12	July
August	1			5			2			1		1	1	1			1		1		1			15	August
September			2				1														1	1		5	September
October	1		1	2	1		3		1				1					2						12	October
November	3	1		1					1	1	1		1			1								10	November
December	1		2	1					1				1	1		1		1	1			1		11	December
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Prefecture of fatal accidents in other cleaning and livestock process service in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	1		1	2		1		1			1											1		8	Hokkaido
Aomori							1															1		2	Aomori
Iwate																									Iwate
Miyagi										1			1	1	1									4	Miyagi

Akita																									Akita
Yamagata																	1							1	Yamagata
Fukushima	1																							1	Fukushima
Ibaraki			1			1						1							1					4	Ibaraki
Tochigi						1	1			1		1				1								5	Tochigi
Gunma																									Gunma
Saitama	1									1	1	1			1	1					1			7	Saitama
Chiba	1	1								1														3	Chiba
Tokyo			1	1			1		1			1	1		1			1						8	Tokyo
Kanagawa				1	2	1	1	2		1		1		1								1		11	Kanagawa
Niigata	1			1																				2	Niigata
Toyama																									Toyama
Ishikawa					1																			1	Ishikawa
Fukui																									Fukui
Yamanashi					1																			1	Yamanashi
Nagano		1																						1	Nagano
Gifu													1											1	Gifu
Shizuoka	2		1	3		1	1								1						1			10	Shizuoka
Aichi	2		1	7	1		1		2	3	1	1		1		1	1		1					23	Aichi
Mie									1												1			2	Mie
Shiga													1											1	Shiga
Kyoto							1		1															2	Kyoto
Osaka	1		1			1	1						1				1	1						7	Osaka

Hyogo	2			2														1			1			6	Hyogo
Nara																									Nara
Wakayama			2				1														1			4	Wakayama
Tottori																									Tottori
Shimane																									Shimane
Okayama																		1			1			2	Okayama
Hiroshima		1		1													1							3	Hiroshima
Yamaguchi						1					1													2	Yamaguchi
Tokushima																									Tokushima
Kagawa																									Kagawa
Ehime	1								1	1					1									4	Ehime
Kochi																			1					1	Kochi
Fukuoka			3	2								1		1	2									9	Fukuoka
Saga																									Saga
Nagasaki														1										1	Nagasaki
Kumamoto					1								1											2	Kumamoto
Oita					1																			1	Oita
Miyazaki																			1					1	Miyazaki
Kagoshima																		1						1	Kagoshima
Okinawa			2																					2	Okinawa
total	13	3	13	20	7	7	9	3	6	9	4	7	6	5	7	3	4	5	4		6	3		144	total

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

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